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PTO/SB/08B (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Application Number					
Filing Date					
First Named Inventor		Dempsy, Robert O., et. al.			
Art Unit					
Examiner Name					
Attorney Docket Number					
Sheet	2	of	5		

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
	28	WO	96/32496				<input type="checkbox"/>
	29	WO	92/10588				<input type="checkbox"/>
	30	WO	96/17957				<input type="checkbox"/>
	31	WO	99/37085				<input type="checkbox"/>

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	32	Chen et al., <i>Nucleic Acids Res.</i> , 23:2661-2668 (1995)	
	33	Singh et al., <i>Chem. Comm.</i> , 455-456 (1998)	
	34	Wengel J., <i>Acc. Chem Res.</i> , 32:301-310 (1998)	
	35	Palissa et al., <i>Z. Chem.</i> , 27:218 (1987)	
	36	Nielsen et al., <i>Science</i> 254: 1487-1500 (1991)	
	37	Uhlmann et al., <i>Angew. Chem. Int. Ed.</i> , 37:2708-2823 (1998)	
	38	Wemmer, D.E. et al., <i>Current Opinion in Structural Biology</i> , 7:355-361 (1997)	
	39	Walker, W.L. et al., <i>Biopolymers</i> , 44:323-334 (1997)	
	40	Zimmer, C et al., <i>J. Prog. Biophys. Molec. Bio.</i> , 47:31-112 (1986)	

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Examiner Signature		Date Considered	08/21/06
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3

of 5

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Dempsy, Robert O., et. al.
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Examiner Name	
Attorney Docket Number	

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DUP	41	Reddy, et al., Pharmacol. Therap., 84:1-111 (1999)	
DUP	42	Talon, T.A. et al. Science 289:1757-1760 (2000)	
DUP	43	Below et al., Nuc. Acid Res., 26:3360-3367 (1998)	
DUP	44	Sectle et al., J. Chem. Soc., Perkin Trans., 1:479-488 (1999)	
DUP	45	Ramzaeva et al. Helv. Chim. Acta 80:1809-1822 (1997)	
DUP	46	Vincent et al. J. Org. Chem., 64:991-997 (1999)	
DUP	47	Beaucage et al., Tetrahedron 48:2223-2311 (1992)	
DUP	48	Scheit, Nucleotide Analogs, John Wiley, New York (1986)	
DUP	49	Uhlman et al., Chemical Reviews, 90:343-384 (1990)	
DUP	50	Seela et al., Nucl. Acids Res., 28:3224-3232 (2000)	
DUP	51	Boffiret et al., Nucl. Acids Res., 24:4660-4667 (1996)	
DUP	52	Sugimoto et al., Biochem 34:11211-11216 (1995)	
DUP	53	Santalucia et al. Biochem, 36:10581-10595 (1997)	
DUP	54	Schutz et al., Biotechniques, 27:1218-22 (1999)	

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Signature

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Sheet 4 of 5	Attorney Docket Number		

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DUP	56	Owczarzy et al. <i>Biopolymers</i> , 44:217-239 (1997)	
DUP	56	Geisen et al. <i>Nucl. Acids Res.</i> , 26:5004-5006 (1998)	
DUP	57	Blake et al., <i>Bioinformatics</i> , 15:370-5 (1999)	
DUP	58	Van Ness et al., <i>Nucleic Acids Res.</i> , 19:5143-5151 (1991)	
DUP	59	J. Chromatogr., B. <i>Biomed. Sci. Appl.</i> 739:139-150 (2000)	
DUP	60	Draper et al., <i>Biochemistry</i> 19:1774-1791 (1980)	
DUP	61	Pastinen T. et al., <i>Genome Res.</i> , 10:1031-42 (2000)	
DUP	62	Lyemichiev et al., <i>Nature Biotechnol.</i> , 17:293-296 (1999)	
DUP	63	Mueller et al., <i>Histochem. Cell Biol.</i> , 108:431-437 (1997)	
DUP	64	Capaldi et al., <i>Nuc. Acids Res.</i> , 28:E21 (2000)	
DUP	66	Eisen, et al., <i>Methods in Enzymology</i> , 309:170-205 (1999)	
DUP	66	Hacia et al., <i>J. Mol. Genet.</i> , 36:730-736 (1999)	
DUP	67	Smith et al., <i>Int. J. Oncol.</i> , 17:841-850 (2000)	
DUP	68	Zhang et al., <i>Nat. Biotechnol.</i> , 18:862-867 (2000)	

Examiner Signature	<i>hts al</i>	Date Considered	08/24/06
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		First Named Inventor	Dempsy, Robert O., et. al.
		Art Unit	
		Examiner Name	
Sheet 5 of 5	Attorney Docket Number		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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DUP	69	Flanagan et al., <i>Nat. Biotechnol.</i> , 14:1139-1145	
DUP	70	Livak et al., <i>PCT Meth. App.</i> 4:357-362 (1995)	
DUP	71	Heid et al., <i>Genome Res.</i> 6:986-994 (1996)	
DUP	72	Taylor et al., <i>Tetrahedron</i> , 48(37):8089-8100 (1992)	
DUP	73	Lohkov, S.G., <i>FEBS Letters</i> 420:134-138 (1997)	
DUP	74	Hall et al., <i>PNAS</i> 97:8272-77 (2000)	

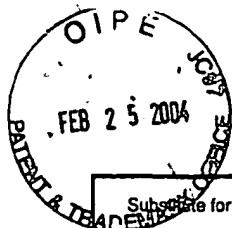
Examiner Signature	<i>Al</i>	Date Considered	08/24/06
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PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 6

Complete if Known

Application Number	10/672,429
Filing Date	September 26, 2003
First Named Inventor	Dempcy, Robert O.
Art Unit	not yet assigned
Examiner Name	not yet assigned
Attorney Docket Number	17682A-003650US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
LA	1	09/457,616		12/02/1999 n/a	Reed et al.	
	2	3,996,345		12-07-76	Ullman, et al.	
	3	4,351,760		09-28-82	Khanna et al.	
	4	4,358,535		11-09-82	Falkow et al.	
	5	4,683,195		07-28-87	Mullis, et al.	
	6	4,683,202		07-28-87	Mullis	
	7	4,800,159		01-24-89	Mullis et al.	
	8	4,868,105		09-19-89	Urdea et al.	
	9	5,124,246		06-23-92	Urdea, et al.	
	10	5,177,196		01-05-93	Meyer, Jr., et al.	
	11	5,210,015		05-11-93	Gelfand, et al.	
	12	5,419,966		05-30-95	Reed, et al.	
	13	5,449,767		09-12-95	Ward, et al.	
	14	5,484,908		01-16-96	Froehler, et al.	
	15	5,492,806		02-20-96	Drmanac, et al.	
	16	5,512,667		04-30-96	Reed, et al.	
	17	5,525,464		06-11-96	Drmanac, et al.	
	18	5,556,749		09-17-96	Mitsuhashi, et al.	
	19	5,578,467		11-1996	Schuster et al.	
	20	5,585,481		12-17-96	Arnold, Jr., et al.	
	21	5,645,985		07-08-97	Froehler, et al.	
	22	5,696,251		12-09-97	Arnold, Jr., et al.	
	23	5,736,626		04-07-98	Mullah, et al.	
	24	5,801,155		09-01-98	Kutyavin et al.	
	25	5,824,796		10-20-98	Petrie, et al.	
	26	5,869,251		02-1999	Schuster et al.	
	27	5,942,610		08-24-99	Nelson, et al.	
	28	6,084,102		07-2000	Kutyavin et al.	
	29	6,127,121		10-2000	Meyer et al.	
	30	6,143,877		11-2000	Meyer et al.	
	31	6,156,501		12-2000	McGall et al.	
	32	6,312,894		11-2001	Hedgpeth et al.	
	33	6,426,408		07-2002	Kutyavin et al.	
✓	34	6,683,173		01-2004	Dempcy et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ²	Number ⁴	Kind Code ⁵ (if known)				

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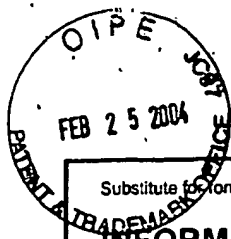
PTO/SB/08A (08-03)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known	
		Application Number	10/672,429
		Filing Date	September 26, 2003
		First Named Inventor	Dempcy, Robert O.
		Art Unit	not yet assigned
		Examiner Name	not yet assigned
Sheet 2	of 6	Attorney Docket Number 17682A-003650US	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
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Examiner Signature	<i>Art al</i>	Date Considered	08/24/06
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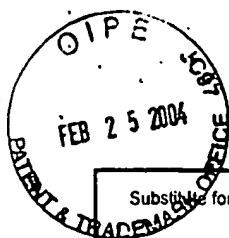
Substitute for Form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/672,429		
		Filing Date	September 26, 2003		
		First Named Inventor	Dempcy, Robert O.		
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Sheet	3	of	6	Attorney Docket Number	17682A-003650US

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	41	Blake et al., <i>Bioinformatics</i> , 15:370-5 (1999)	
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	45	Draper et al., <i>Biochemistry</i> 19:1774-1791 (1980)	
	46	Eisen, et al., <i>Methods in Enzymology</i> , 303:179-205 (1999)	
	47	Flanagan et al., <i>Nat. Biotechnol.</i> , 14:1139-1145	
	48	Geisen et al. <i>Nucl. Acids Res.</i> , 26:5004-5006 (1998)	
	49	Hacia et al., <i>J. Mol. Genet.</i> , 36:730-736 (1999)	
	50	Hall et al., <i>PNAS</i> 97:8272-77 (2000)	
	51	Heid et al., <i>Genome Res.</i> 6:986-994 (1996)	
	52	J. Chromatogr., <i>B. Biomed. Sci. Appl.</i> 739:139-150 (2000)	
	53	Livak et al., <i>PCT Meth. App.</i> 4:357-362 (1995)	
✓	54	Lohkov, S.G., <i>FEBS Letters</i> 420:134-138 (1997)	

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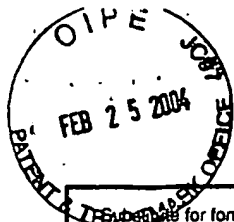
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RA	55	Lyamichev et al., <i>Nature Biotechnol.</i> , 17:292-296 (1999)	
	56	Mueller et al., <i>Histochem, Cell Biol.</i> , 108:431-437 (1997)	
	57	Nielsen et al. <i>Science</i> , 254: 1497-1500 (1991)	
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	59	Palissa et al., <i>Z. Chem.</i> , 27:216 (1987)	
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	63	Santalucia et al., <i>Biochem</i> , 36:10581-10595 (1997)	
	64	Scheit, <i>Nucleotide Analogs</i> , John Wiley, New York (1980)	
	65	Schutz et al., <i>Biotechniques</i> , 27:1218-22 (1999)	
	66	Seela et al., <i>J. Chem. Soc. Perkin Trans.</i> , 1:479-488 (1999)	
	67	Seela et al., <i>Nucl. Acids Res.</i> , 28:3224-3232 (2000)	
	68	Singh et al., <i>Chem. Comm.</i> , 455-456 (1998)	
	69	Smith et al., <i>Int. J. Oncol.</i> , 17:841-850 (2000)	
✓	70	Sugimoto et al., <i>Biochem</i> 34:11211-11216 (1995)	

Examiner Signature	<i>RAH AL</i>	Date Considered	08/21/06
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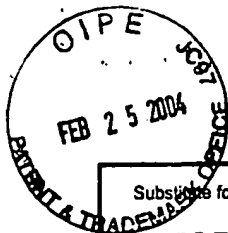
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	72	Taylor et al., <i>Tetrahedron</i> , 48(37):8089-8100 (1992)	
	73	Uhlman et al., <i>Chemical Reviews</i> , 90:543-584 (1990)	
	74	Uhlmann et al. <i>Angew. Chem. Int. Ed.</i> 37:2796-2823 (1998)	
	75	Van Ness et al., <i>Nucleic Acids Res.</i> , 19:5143-5151 (1991)	
	76	Vincent et al. <i>J. Org. Chem.</i> , 64:991-997 (1999)	
	77	Walker, W.L. et al., <i>Biopolymers</i> , 44:323-334 (1997)	
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Examiner Signature	<i>Robert A. Dempcy</i>	Date Considered	<i>08/29/06</i>
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known			
		<i>Application Number</i>	10/672,429		
		<i>Filing Date</i>	September 26, 2003		
		<i>First Named Inventor</i>	Dempcy, Robert O.		
		<i>Art Unit</i>	not yet assigned		
		<i>Examiner Name</i>	not yet assigned		
Sheet	6	of	6	<i>Attorney Docket Number</i>	17682A-003650US

Examiner Signature	<i>Rita Al</i>	Date Considered	<i>08/24/06</i>
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PTO/SB/08A (08-03)

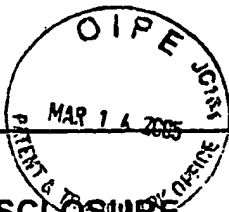
Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/672,429
		Filing Date	September 26, 2003
		First Named Inventor	Dempsy, Robert O.
		Art Unit	1623
		Examiner Name	Not yet assigned
Sheet 1 of 2	Attorney Docket Number	17682A-003650US	

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
RA	A1	US-5,594,121	01-1997	Froehler et al.	
	A2	US-5,849,482	12-1998	Meyer et al.	
	A3	US-6,339,147	01-2002	Lukhtanov et al.	
	A4	US-10/302,607	11/20/2002	Petrie et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number ⁴					
		Country Code ³	Kind Code ⁵ (if known)				
RA	B5	WO	84/03285	08-30-1984	Molecular Biosystems		<input type="checkbox"/>
	B6	WO	90/03370	05-05-1990	Microprobe Corporation		<input type="checkbox"/>
	B7	WO	97/46313	12-11-1997	Array Technologies		<input type="checkbox"/>
	B8	WO	98/49180	11-05-1998	Epoch Pharmaceuticals, Inc.		<input type="checkbox"/>
	B9	WO	99/51775	10-14-1999	Epoch Pharmaceuticals, Inc.		<input type="checkbox"/>
	B10	WO	99/51621	10-14-1999	Epoch Pharmaceuticals, Inc.		<input type="checkbox"/>
	B11	WO	00/06771	02-10-2000	Affymetrix, Inc.		<input type="checkbox"/>
	B12	WO	02/12263	02-14-2002	Roche Diagnostics		<input type="checkbox"/>
	B13	EP	1103910	A1	05-30-2001	Schütz et al.	

Examiner Signature	<i>Robert O. Dempsy</i>	Date Considered	09/24/06
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PTO/SB/08B (08-03)

Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/672,429	
			Filing Date	September 26, 2003	
			First Named Inventor	Dempcy, Robert O.	
			Art Unit	1623	
			Examiner Name	Not yet assigned	
Sheet	2	of	2	Attorney Docket Number	17682A-003650US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RA	C14	CLERCQ, E.D. et al. "Nucleic Acid Related Compounds. 40. Synthesis and Biological Activities of 5-Alkynyluracil Nucleosides," <i>J. Med. Chem.</i> , Vol. 26, No. 5:661-666 (1983)	
	C15	CRUICKSHANK, K.A. et al. "Oligonucleotide Labelling: A Concise Synthesis Of A Modified Thymidine Phosphoramidite," <i>Tetrahedron Letters</i> , Vol. 29 No. 41, pp 5221-5224 (1988)	
	C16	GRAHAM, D. et al. "DNA duplexes stabilized by modified monomer residues: synthesis and stability," <i>J. Chem. Soc., Perkin Trans.</i> , 1:1131-1138 (1998)	
	C17	HOBBS, F. W., Jr. "Palladium-Catalyzed Synthesis of Alkynylamino Nucleosides. A Universal Linker for Nucleic Acids," <i>J. Org. Chem.</i> , 54:3420-3422 (1989)	
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	C19	SEELA, F. et al. "131. 8-Aza-7-deaza-2'-deoxyguanosine: Phosphoramidite Synthesis and Properties of Octanucleotides," <i>Helvetica Chimica Acta</i> , Vol. 71:1191-1197 (1988)	
	C20	SEELA, F. et al. "8-AZA-7-Deazapurine DNA: Synthesis And Duplex Stability Of Oligonucleotides Containing 7-Substituted Bases," <i>Nucleosides & Nucleotides</i> , 18(6&7):1399-1400 (1999)	
	C21	SEELA, F. et al. "Duplex Stability Of Oligonucleotides Containing 7-Substituted 7-DEAZA- AND 8-AZA-7-Deazapurine Nucleosides," <i>Nucleosides & Nucleotides</i> , 16(7-9):963-966 (1997)	
	C22	SEELA, F. et al. "Oligonucleotides Containing Pyrazolo [3,4-d] pyrimidines: The Influence of 7-Substituted 8-Aza-7-deaza-2'-deoxyguanosines on the Duplex Structure and Stability," <i>Helvetica Chimica Acta</i> , Vol. 82:1640-1655 (1999)	
	C23	SEELA, F. et al. "Synthesis of 7-alkynylated 8-aza-7-deaza-2'-deoxyadenosines via the Pd-catalysed cross-coupling reaction," <i>J. Chem. Soc., Perkin Trans.</i> , 1:3233-3239 (1998)	
✓	C24	SEELA, F. et al. "The Influence of Modified Purine Bases on the Stability of Parallel DNA," <i>Bioorganic & Medicinal Chemistry Letters</i> , 10:289-292 (2000)	

Examiner Signature	<i>RA AL</i>	Date Considered	<i>03/24/06</i>
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